

## DECLARATION

As the below-named inventor, I declare that:


My residence, post office address, and citizenship are as stated below under my name.

I believe I am the original, first, and sole inventor of the invention entitled "METHOD AND APPARATUS FOR CHEMICAL-MECHANICAL PLANARIZATION OF MICROELECTRONIC SUBSTRATES WITH A CARRIER AND MEMBRANE," which is described and claimed in the foregoing specification and for which a patent is sought.

I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment specifically referred to herein (if any).

I acknowledge my duty to disclose information of which I am aware which is material to patentability and examination of this application in accordance with 37 C.F.R. § 1.56(a).

I further declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further, that these statements were made with the knowledge that the making of willfully false statements and the like is punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and may jeopardize the validity of any patent issuing from this patent application.

  
\_\_\_\_\_  
Nathan R. Brown  
Date 7/23/99

Residence : City of Boise, County of Ada  
State of Idaho  
Citizenship : United States of America  
P.O. Address : 7869 Snohomish St. West  
Boise, Idaho 83709

# PATENT

**Applicant** : Nathan R. Brown  
**Filed** : Concurrently herewith  
**For** : METHOD AND APPARATUS FOR CHEMICAL-  
MECHANICAL PLANARIZATION OF  
MICROELECTRONIC SUBSTRATES WITH A CARRIER  
AND MEMBRANE

**Docket No. : 660073.792**

**Box Patent Application**  
**Assistant Commissioner for Patents**  
**Washington, DC 20231**

ELECTION UNDER 37 C.F.R. §§ 3.71 AND 3.73 AND POWER OF ATTORNEY

Sir:

The undersigned, being Assignee of the entire interest in the above-identified application by virtue of an Assignment filed concurrently herewith, hereby elects, under 37 C.F.R. § 3.71, to prosecute the application to the exclusion of the inventor.

Assignee hereby appoints RICHARD W. SEED, Reg. No. 16,557; ROBERT J. BAYNHAM, Reg. No. 22,846; EDWARD W. BULCHIS, Reg. No. 26,847; GEORGE C. RONDEAU, JR., Reg. No. 28,893; DAVID H. DEITS, Reg. No. 28,066; WILLIAM O. FERRON, JR., Reg. No. 30,633; PAUL T. MEIKLEJOHN, Reg. No. 26,569; DAVID J. MAKI, Reg. No. 31,392; RICHARD G. SHARKEY, Reg. No. 32,629; DAVID V. CARLSON, Reg. No. 31,153; KARL R. HERMANN, Reg. No. 33,507; DAVID D. MCMASTERS, Reg. No. 33,963; MICHAEL J. DONOHUE, Reg. No. 35,859; CHRISTOPHER J. DALEY-WATSON, Reg. No. 34,807; STEVEN D. LAWRENZ, Reg. No. 37,376; ROBERT G. WOOLSTON, Reg. No. 37,263; ELLEN M. BIERMAN, Reg. No. 38,079; PAUL T. PARKER, Reg. No. 38,264; ANN T. KADLECEK, Reg. No. 39,244; DAVID W. PARKER, Reg. No. 37,414; BRIAN G. BODINE, Reg. No. 40,520; FRANK ABRAMONTE, Reg. No. 38,066; E. RUSSELL TARLETON, Reg. No. 31,800; KEVIN S.

1. The first part of the paper is devoted to the study of the properties of the function  $f(x)$  defined by the equation  $f(x) = \int_0^x f(t) dt$ . It is shown that  $f(x)$  is a continuous function and that it satisfies the functional equation  $f(x+y) = f(x) + f(y)$ . The function  $f(x)$  is also shown to be differentiable and its derivative is found to be  $f'(x) = f(x)$ .

COSTANZA, Reg. No. 37,801; DALE C. BARR, Reg. No. 40,498; KEVIN S. ROSS, Reg. No. 42,116; JOHN M. WECHKIN, Reg. No. 42,216; THOMAS E. LOOP, Reg. No. 42,810; STEPHEN J. ROSENMAN, Reg. No. 43,058; BRIAN L. JOHNSON, Reg. No. 40,033; JAMES D. WHITE, Reg. No. 43,985; KIMTON N. ENG, Reg. No. 43,605; SUSAN D. BETCHER, Reg. No. 43,498; DENNIS M. de GUZMAN, Reg. No. 41,702; JANE E. R. POTTER, Reg. No. 33,332; KEN TARBET, Reg. No. 43,181, and WILLIAM T. CHRISTIANSEN, Reg. No. P-44,614, comprising the firm of SEED AND BERRY LLP, 6300 Columbia Center, Seattle, Washington 98104-7092; along with MICHAEL L. LYNCH, Reg. No. 30,871; LIA M. PAPPAS, Reg. No. 34,095; WALTER D. FIELDS, Reg. No. 37,130; CHARLES B. BRANTLEY, II, Reg. No. 38,086; KEVIN D. MARTIN, Reg. No. 37,882; and DAVID J. PAUL, Reg. No. 34,692, of Micron Technology, Inc., 8000 South Federal Way, Boise, Idaho 83706-9632, as its attorneys to prosecute this application and transact all business in the Patent and Trademark Office connected therewith. Please direct all telephone calls to John M. Wechkin at (206) 622-4900 and telecopies to (206) 682-6031.

Please direct all communications to:


John M. Wechkin, Esq.  
Seed and Berry LLP  
6300 Columbia Tower  
701 Fifth Avenue  
Seattle, Washington 98104-7092

Pursuant to 37 C.F.R. § 3.73, the undersigned duly authorized designee of Assignee certifies that the evidentiary documents have been reviewed, specifically the Assignment to MICRON TECHNOLOGY, INC., filed concurrently herewith for recording, a copy of which is attached hereto, and certifies that to the best of my knowledge and belief, title remains in the name of the Assignee.

MICRON TECHNOLOGY, INC.  
ASSIGNEE

DATE

Apr 12, 1997

  
Michael L. Lynch  
Chief Patent Counsel

Enclosure:

Copy of Assignment

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2007-03-01 10:00:00

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:

Nathan R. Brown

Docket No.: 660073.792

Disclosure Number: 99-0105

Filed: Concurrently herewith

For: METHOD AND APPARATUS  
FOR CHEMICAL-  
MECHANICAL  
PLANARIZATION OF  
MICROELECTRONIC  
SUBSTRATES WITH A  
CARRIER AND MEMBRANE

ASSIGNMENT:

☒ Enclosed for recording

☐ Previously recorded

Date: \_\_\_\_\_

Reel: \_\_\_\_\_

FOR GOOD AND VALUABLE CONSIDERATION, the receipt, sufficiency and adequacy of which are hereby acknowledged, the undersigned does hereby:

SELL, ASSIGN AND TRANSFER to Micron Technology, Inc. (the "Assignee"), a corporation of Delaware, having a place of business at 8000 South Federal Way, Boise, Idaho 83706-9632, the entire right, title and interest for the United States and all foreign countries, in and to any and all improvements which are disclosed in the application for United States Letters Patent, which has been executed by the undersigned concurrently herewith and is entitled "METHOD AND APPARATUS FOR CHEMICAL-MECHANICAL PLANARIZATION OF MICROELECTRONIC SUBSTRATES WITH A CARRIER AND MEMBRANE"; such application and all divisional, continuing, substitute, renewal, reissue and all other applications for patent which have been or shall be filed in the United States and all foreign countries on any of such improvements; all original and reissued patents which have been or shall be issued in the United States and all foreign countries on such improvements; and specifically including the right to file foreign applications under the provisions of any convention or treaty and claim priority based on such application in the United States of America;

AUTHORIZE AND REQUEST the issuing authority to issue any and all United States and foreign patents granted on such improvements to the Assignee;

WARRANT AND COVENANT that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been or will be made to others by the undersigned, and that the full right to convey the same as herein expressed is possessed by the undersigned;

COVENANT that, when requested and at the expense of the Assignee, to carry out in good faith the intent and purpose of this assignment, the undersigned will execute all divisional, continuing, substitute, renewal, reissue, and all other patent applications on any and all such improvements; execute all rightful oaths, declarations, assignments, powers of attorney and other papers; communicate to the Assignee all facts known to the undersigned relating to such improvements and the history thereof; and generally do everything possible which the Assignee shall consider desirable for securing, maintaining and enforcing proper patent protection for such improvements and for vesting title to such improvements in the Assignee;

TO BE BINDING on the heirs, assigns, representatives and successors of the undersigned and extend to the successors, assigns and nominees of the Assignee.

Nathan R Brown  
Nathan R. Brown

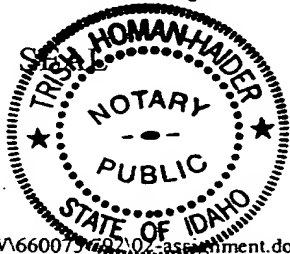
Date: 7/23/99

STATE OF IDAHO )

) ss.

County of Ada )

BEFORE ME, this 23rd day of July, 1999, personally appeared the above-named individual, to me known to be the person who is described in and who executed the foregoing assignment instrument and acknowledged to me that he executed the same of his own free will for the purpose therein expressed.



Trish Homan-Haider  
Notary or Consular Officer  
My Commission Expires 3-26-03

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660073.792

MAIL NO. EL646072889US

# PATENT

I hereby certify that on the date specified below, this correspondence is being deposited with the United States Postal Service as first-class mail in an envelope addressed to the Commissioner of Patents, Washington, DC 20231.

Date 10-26-00

Debra A. Young

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

**Applicant : Nathan R. Brown**

Attorney Docket No.: 500200.01 (660073.792)

Serial No. : 09/366,406

Group Art Unit : 3729

**Filed : August 3, 1999**

Examiner : S. Smith

**Title : METHOD AND APPARATUS FOR CHEMICAL-MECHANICAL PLANARIZATION OF MICROELECTRONIC SUBSTRATES WITH A CARRIER AND A MEMBRANE**

**TRANSMITTAL FOR REVOCATION AND SUBSTITUTE POWER OF ATTORNEY**

Commissioner of Patents  
Washington, D.C. 20231

Sir:

Transmitted herewith and attached hereto as Addendum A is a true and correct copy of the Revocation and Substitute Power of Attorney executed June 1, 2000, in the above-identified application. The above-identified application is identified on Exhibit A.

Pursuant to 37 C.F.R. § 3.73, Michael L. Lynch, duly authorized designee of Assignee, has certified that the evidentiary documents have been reviewed, specifically the Assignment to MICRON TECHNOLOGY, INC., recorded under Reel 010147 / Frame 0862, and certified that to the best of his knowledge and belief, title remains in the name of the Assignee.

Respectfully submitted,

**DORSEY & WHITNEY LLP**

Steven H. Arterberry  
Registration No. 46,314

**Enclosures:**

**Addendum A**  
**Exhibit A**

**1420 Fifth Avenue, Suite 3400  
Seattle, Washington 98101-4010  
(206) 903-8800 (telephone)  
(206) 903-8200 (fax)**

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## ADDENDUM A

## THE UNITED STATES PATENT AND TRADEMARK OFFICE

Assistant Commissioner for Patents  
Washington, DC 20231

REVOCATION AND SUBSTITUTE POWER OF ATTORNEY

Sir:

In the matter of the patent application identified in Exhibit A attached hereto, I, MICHAEL L. LYNCH, declare that I am a duly authorized designee of Micron Technology, Inc. ("Micron"), the ASSIGNEE of the entire right, title and interest in and to the patent application identified in Exhibit A attached hereto. Documentary evidence of chain of title from the original owner to ASSIGNEE has been or is concurrently being filed with and recorded by the United States Patent Office. The evidentiary documents referred to in the instant Revocation and Power of Attorney have been reviewed by the undersigned, and it is certified that, to the best of ASSIGNEE's knowledge and belief, title is held solely in and by Micron.

On behalf ASSIGNEE, I revoke all power of attorney heretofore given, and hereby appoint EDWARD W. BULCHIS, Reg. No. 26,847; JON F. TUTTLE, Reg. No. 25,713; PAUL T. MEIKLEJOHN, Reg. No. 26,569; GLENN P. RICKARDS, Reg. No. 29,428; DALE C. BARR, Reg. No. 40,498; KIMTON N. ENG, Reg. No. 43,605; DAVID E. BOONE, Reg. No. 27,857; SCOTT W. DOYLE, Reg. No. 39,176; REED R. HEIMBECHER, Reg. No. 36,353; JOHN T. KENNEDY, Reg. No. 42,717; GREGORY D. LEIBOLD, Reg. No. 36,408; GARY M. POLUMBUS, Reg. No. 25,364; THOMAS H. YOUNG, Reg. No. 25,796; W. ROBINSON H. CLARK, Reg. No. 41,530; GREGORY J. GLOVER, Reg. No. 34,173; JOHN K. HARROP, Reg. No. 41,817; CHRIS McWHINNEY, Reg. No. 42,875; ALDO NOTO, Reg. No. 35,628; MATTHEW PHILLIPS, Reg. No. 43,403; JOHN W. RYAN, Reg. No. 33,771; AMI P. SHAH, Reg. No. 42,143; SEAN S. WOODEN,

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Reg. No. 43,997; MICHAEL C. GILCHRIST, Reg. No. 40,619; BRIAN J. LAURENZO, Reg. No. 34,207; SHANE COLEMAN, Reg. No. 44,623; RONALD J. BROWN, Reg. No. 29,016; DAVID E. BRUHN, Reg. No. 36,762; DAVID N. FRONEK, Reg. No. 25,678; JOSEPH F. HAAG, Reg. No. 42,612; STUART R. HEMPHILL, Reg. No. 28,084; GRANT A. JOHNSON, Reg. No. 42,696; KENNETH E. LEVITT, Reg. No. 39,747; NIALA A. MACLEOD, Reg. No. 41,963; SCOTT A. MARKS, Reg. No. 44,902; DEVAN V. PADMANABHAN, Reg. No. 38,262; GERALD H. SULLIVAN, Reg. No. 37,243; BRIAN PARK, Reg. No. 45,519; MARK W. ROBERTS, Reg. No. 46,160; STEVEN H. ARTERBERRY, Reg. No. 46,314; PAUL F. RUSYN, Reg. No. 42,118; of the firm of DORSEY & WHITNEY LLP; along with MICHAEL L. LYNCH, Reg. No. 30,871; WALTER D. FIELDS, Reg. No. 37,130; CHARLES B. BRANTLEY, II, Reg. No. 38,086; KEVIN D. MARTIN, Reg. No. 37,882; and DAVID J. PAUL, Reg. No. 34,692, of MICRON TECHNOLOGY, INC., 8000 South Federal Way, Boise, Idaho 83706-9632, as its attorneys to transact all business in the Patent and Trademark Office connected therewith.

Please direct all future correspondence and telephone calls to:

Edward W. Bulchis, Esq.  
DORSEY and WHITNEY LLP  
U.S. Bank Centre, Suite 3400  
1420 Fifth Avenue  
Seattle, Washington 98101  
(206)903-8800  
(206)903-8820 facsimile.

ASSIGNEE:

Micron Technology, Inc.

6-1-00  
\_\_\_\_\_  
Date


By   
\_\_\_\_\_  
Michael L. Lynch  
Chief Patent Counsel

Exhibit A

<u>Appl. No.</u>	<u>Atty Dkt #</u>	<u>Applicants</u>	<u>Filed</u>	<u>Title</u>
09/366,406	660073.792 (500200.01)	Nathan R. Brown	03-Aug-99	Method and Apparatus for Chemical-Mechanical Planarization of Microelectronic Substrates with a Carrier and Membrane

09/366,406